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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/601,757	06/24/2003	Billy R. Martin	02940232AA	7329
30743	7590 08/01/2005		EXAMINER	
WHITHAM, CURTIS & CHRISTOFFERSON, P.C.			OWENS, AMELIA A	
11491 SUNSET HILLS ROAD SUITE 340		ART UNIT	PAPER NUMBER	
RESTON, VA 20190			1625	

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/601,757	MARTIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Amelia A. Owens	1625				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w. - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	16(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	Responsive to communication(s) filed on					
a) ☐ This action is FINAL . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-16</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner 10) The drawing(s) filed on 10/1/2003 accessions.	r.	Evominor				
Applicant may not request that any objection to the o						
Replacement drawing sheet(s) including the correcti	•,,	• •				
11) The oath or declaration is objected to by the Ex		• • •				
•						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents		an Na				
2. Certified copies of the priority documents3. Copies of the certified copies of the prior	• •	- 				
application from the International Bureau	• •	in this National Stage				
* See the attached detailed Office action for a list of	, ,,	ed.				
		-				
Attachment(s)						
1) X Notice of References Cited (PTO-892)	4) Interview Summary					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate atent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	and a possibility in the low				

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Application/Control Number: 10/601,757

Art Unit: 1625

DETAILED ACTION

Claims 1-16 are pending. Drawings, 4 sheets, were filed with application. Foreign priority was not claimed.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-7,11,12,14,15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 2-6,12,15 do not end in a period. Please correct.

Claims 1,7,11,14 define X as 'saturated or unsaturated C1 to C2 carbon chain'. It is not possible for C1 to be unsaturated chain.

Claims 11 and 14 use the term 'generic' when describing the formula. It is suggested that the term be deleted.

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 7-16 are rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for treatment of vomiting, nausea, and appetite loss does not reasonably provide enablement for 'treatment of a condition or disorders related to cannabinoid-regulated systems....in quantity sufficient to ameliorate symptoms...'. The specification does not enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to use the invention commensurate in scope with these claims.

Application/Control Number: 10/601,757

Art Unit: 1625

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is "undue". These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

The nature of the invention: The nature of the invention is the method of treatment of a condition or disorders related to cannabinoid-regulated systems which further contain sulfonamide which functions an a silent antagonist of the CB1 receptor; method of blocking the effects of a CB1 cannabinoid receptor agonist. See claims.

The state of the prior art and predictability: The state of the prior art is that it involves screening in vitro and in vivo to determine which compounds exhibit the desired pharmacological activities (i.e. what compounds can treat which specific disease). There is no absolute predictability even in view of the seemingly high level of skill in the art. The existence of these obstacles establishes that the contemporary knowledge in the art would prevent one of ordinary skill in the art from accepting any therapeutic regimen on its face. It is noted that the pharmaceutical art is unpredictable, requiring each embodiment to be individually assessed for physiological activity. In re Fisher, 427 F. 2d 833, 166 USPQ 18 (CCPA 1970) indicates that the more unpredictable an area is, the more specific enablement is necessary in order to satisfy the

Application/Control Number: 10/601,757 Page 4

Art Unit: 1625

statute. In the instant case, the instantly claimed invention is highly unpredictable given the unpredictability of cannabinoid-regulated systems.

Guidance and working examples: Compounds according to the invention have been made. The tests are noted. Mechoulam et al 'The cannabinoids: an overview. Therapeutic implications in vomiting and nausea after cancer chemotherapy, in appetite promotion in multiple sclerosis and in neuroprotection' teach cannabinoids useful to treat nausea, vomiting. See page 72 conclusions section; page 69 at column 2 starting 10 lines from bottom of column. However, applicants are claiming ALL diseases, disorders, conditions, known to be associated with the cannabinoid regulated system *AND* such diseases, disorders, conditions that will be discovered in the future and such is wholly inoperable.

Further, the claims refer to a 'silent antagonist that is a sulfonamide moiety'. What is meant by this term? How is it determined that a moiety is a 'silent agonist'? It is noted that applicants cite articles in the specification to support this point. See paragraph 0096. The articles have not been supplied.

Thus, the specification fails to provide sufficient support of the broad use of the compounds of claim 1 for the treatment of 'cannabinoid regulated systems'. Therefore, in view of the Wands factors and In re Fisher (CCPA 1970) discussed above, to practice the claimed invention herein, one of ordinary skill in the art would have to engage in undue experimentation to test which diseases can be treated by the compounds of the instant claims, with no assurance of success.

This rejection can be overcome by deleting the claims.

Allowable Subject Matter

The prior art neither teaches nor suggests the claimed compounds.

Art Unit: 1625

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Amelia A. Owens whose telephone number is 571-272-0690. The examiner can normally be reached on Monday - Friday from 8:30 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cecilia Tsang can be reached on 571-272-0562. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner
Art Unit 1625